REMARKS

Claims 4, 5, 9-28 and 32-37 are pending in this application. Claims 32-37 have been canceled. Claims 38 and 39 have been added.

The Office Action dated January 5, 2005, has been received and carefully reviewed. In that Office Action, it was indicated that claims 4, 5, and 9-28 were objected to as being dependent upon rejected base claims, but that these claims would be allowable if amended to include the limitations of their base claims. Claim 4 is presently written in independent form; therefore it is believed that claim 4 and its dependent claims 9, 14, 16, 20 and 22-28 should be allowable as written. Claim 5 is presently written in independent form; therefore it is believed that claim 5 and its dependent claims 10, 15, 16, 21 and 22-28 should be allowable as written. Claims 11, 12, 13, 17, 18 and 19 are also each written in independent form. It is therefore believed that these claims are allowable as written.

By the above amendment, claims 32-37 have been cancelled.

New claims 38 and 39 are submitted to be allowable over the art of record. Claim 38 requires an image interpolation system for interpolating an image on inter-lines between lines of input image, wherein a virtual interpolation data including starting position, length and sign for a virtual interpolation line pattern with a pixel row as a unit generated based on sign of difference between the pixel on neighboring image input line data is generated and

stored in a database, a matching judgment is performed on the virtual interpolation data on a continuous line stored in said database and an interpolating segment on said interpolating line is determined based on said judgment result, pixel row data matching on the input image line is calculated based on interpolating segment determining data and the starting position and the length of the virtual interpolation data used for determining the interpolating segment and a pre-interpolating pixel row is setup on said input image line based on data of said matching pixel row, and images are interpolated in said interpolating segment on said interpolating line based on said pre-interpolating pixel row. These features are not shown or suggested by the art of record, and claim 38 is therefore believed to be allowable over the art of record.

New claim 39 is also believed to be allowable. Claim 39 requires an image interpolation method for interpolating an image on inter-lines between the lines of input image that involves a step of generating and storing in a database a virtual interpolation data including starting position, length and sign for a virtual interpolation line pattern with a pixel row as a unit generated based on sign of difference between the pixel on neighboring image input line data, a step of performing a matching judgment on the virtual interpolation data on a continuous line stored in said database and determining the interpolating segment

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on said interpolating line based on said judgment result, and a step of calculating pixel row data matching on input image line based on interpolating segment determination data and the starting position and length of the virtual interpolation data used for determining the interpolation segment and setting up a pre-interpolating pixel row on said input image line based on data of said matching pixel row. These steps are not shown or suggested by the art of record, and claim 39 is therefore also believed to be allowable.

Conclusion

Each issue raised in the Office Action dated January 5, 2005, has been addressed, and it is believed that claims 4, 5, 9-28, 38 and 39 are in condition for allowance. Wherefore, reconsideration and allowance of these claims is earnestly solicited.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Scott Wakeman (Reg. No. 37,750) at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees

required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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